

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1(Currently Amended). A pickup unit for stringed instruments, comprising:

 a single removable pickup housing adapted to be mounted within a sound hole of a stringed instrument, the housing having a top surface facing strings on the instrument, a left side, a right side, a front end side and a rear end side, and a bottom surface, the top surface and the bottom surface having a vertical axis passing therethrough;

 three pickup sensors on the stringed instrument connected to the pickup housing;

three rotatable tuning members knobs for each of the pickup sensors attached on the housing being easily adjustable by a user of the instrument, the three rotatable knobs located on at least one of the left side and right side of the pickup housing, the rotatable knobs having an axis of rotation perpendicular to the vertical axis passing through the top surface and the bottom surface; and

 a connector for connecting the pickup housing to an external amplifier, wherein the pickup unit is adapted when installed in the sound hole so that a user's fingers are reachable to the rotatable knobs while the user's fingers are on strings across the sound hole of the stringed instrument.

Claim 2(Original). The pickup unit of claim 1, wherein the stringed instrument includes: an acoustic guitar.

Claim 3(Original). The pickup unit of claim 1, wherein the three pickup sensors include:

a magnetic sensor, a piezoelectric transducer, and a microphone.

Claim 4(Currently Amended). The pickup unit of claim 54, wherein the rotatable tuning members knobs include:

two rotatable knobs side mounted to the left side and two rotatable knobs side mounted to the right side, one rotatable knob for the master control volume, a second rotatable knob for the magnetic sensor, a third rotatable knob of the piezoelectric transducer and a fourth rotatable knob for the microphone, each of the side mounted knobs having knurled edges so that only one finger is needed to rotate the knobs .

Claim 5(Currently Amended). The pickup unit of claim 1, further comprising:

a master volume control for controlling overall volume of the three pickup sensors with a single rotatable knob.

Claim 6(Currently Amended). The pickup unit of claim 1, further comprising:

a-clamps for mounting both the front end side and the rear end side of the pickup unit to interior edges inside of the sound hole of the stringed instrument; and

a padded surface portion on the clamps, so that mounting the pickup unit with the clamps does not result in ~~without~~ causing damage to the stringed instrument, the clamps for orienting the pickup unit so that the rotatable knobs are not underneath strings; and

screwable members for compressing the clamps about the interior edge of the sound hole of the stringed instrument.

Claims 7-8(Canceled).

Claim 9(Currently Amended). The pickup unit of claim 1, wherein the housing includes:

dimensions of ~~up to~~ no greater than approximately 4 & ¼ inches wide by approximately 1 inch high by approximately 1 inch deep.

Claim 10(Currently Amended). A method of adjusting a broad range of audio frequencies emanating from an instrument with strings, a bridge, a sound board and a sound box hole, comprising the steps of:

providing a single pickup unit with an upper surface, a left side, a right side, a front end, a rear end, and a rear surface;

positioning at least three rotatable control knobs on at least one of the left side and the right side of the unit, the control knobs for adjusting at least three different sensors;

mounting both the front end and the rear end of the pickup unit with clamping members to interior edges of the sound box hole without causing damage to the instrument;

sensing acoustic wave pressures absorbed in the sound board of the stringed instrument through one of the different sensors;

detecting mechanical resonate energy from the bridge of the string instrument through another of the different sensors;

detecting motion of the string in the string instrument through still another of the different sensors; and

combining the sensing step, the mechanical resonate energy detecting step and the string motion detecting step for connection to an exterior amplifier.

Claim 11(Currently Amended). The method of claim 10, ~~further comprising~~wherein the mounting step further includes the step of:

orienting the pickup unit so that the three rotatable knobs are not located directly beneath strings overlaying the sound box hole; and

locating the pickup unit so that the three rotatable knobs are reachable while the user's fingers are on the strings overlaying the sound box hole of ~~mounting a single unit inside of the sound box of the stringed instrument for the combining and the controlling step, without causing damage to the stringed instrument.~~

Claim 12(Currently Amended). The method of claim 11, wherein the mounting step includes the step of:

clamping edges of the sound board adjacent to the sound box through padded members on the clamping members to ~~with a portion of the inside mounted~~the front end and the rear end of the single unit.

Claim 13(Canceled).

Claim 14(Original). The method of claim 10, wherein the sensing step includes the step of: providing a condenser microphone for the sensing step, the mechanical resonate

energy detecting step includes the step of: providing a piezo pressure transducer, the
string motion detecting step includes the step of: providing a magnetic transducer.

Claims 15-16(Canceled)

Claim 17(Original). The method of claim 10, further comprising the step of:
individually controlling the sensing step, the mechanical resonate energy
detecting step and the string motion detecting step with separate rotatable knobs.

Claim 18(Original). The method of claim 10, further comprising the step of:
controlling overall volume of the sensing step, the mechanical resonate energy
detecting step and the string motion detecting step, with a single rotatable knob.

Claim 19(Currently Amended). The method of claim 10, further comprising the step
of:

individually controlling the sensing step, the mechanical resonate energy
detecting step and the string motion detecting step with three separate rotatable knobs;
and

controlling overall volume of the sensing step, the mechanical resonate energy
detecting step and the string motion detecting step, with a single-fourth rotatable knob,
wherein two of the rotatable knobs are located on one of the left and the right sides of the
housing and another two of the rotatable knobs are located on an opposite side.

Claim 20(Canceled).

Claim 21(New). The method of claim 10, further comprising the step of:

orienting rotational axes of the knobs to be perpendicular to a vertical axis passing from the upper surface to the rear surface of the pickup unit.

Claim 22(New). The pickup unit of claim 1, wherein the rotatable knobs are mounted to at least one of the left side and the right side of the pickup unit adjacent to at least one of the front end side and the rear end side, the rotatable knobs being mounted beneath and away from the strings on the instrument so that fingers of the user do not have to pass between the strings to reach the rotatable knobs.

Claim 23(New). A pickup unit for use with stringed instruments, comprising:

a single removable pickup housing adapted to be mounted within a sound hole of a stringed instrument behind strings that lay across the sound hole, the housing having a top surface facing the strings on the instrument, a left side, a right side, a front end side and a rear end side, and a bottom surface, the top surface and the bottom surface having a vertical axis passing therethrough;

a pickup sensor on the stringed instrument connected to the pickup housing; and

a rotatable tuning knob for tuning the pickup sensor being mounted to a side face of at least one of the left and right sides of the pickup housing, the rotatable knob being located adjacent to at least one of the front end side and the rear end side, the rotatable knob having an axis of rotation perpendicular to the vertical axis passing through the top surface and the bottom surface, the rotatable knob being located beneath and away from

the strings on the instrument so that fingers of the user do not have to pass between the strings to reach the rotatable knob, and so that a single finger of a user's hand can reach the rotatable knob while the user's hand remains stationary over the strings that are across the sound hole of the stringed instrument; and

separate adjustable clamping members for solely clamping both the front end side and the rear end side of the housing of the pickup unit to interior edges inside of the sound hole of the stringed instrument.

Claim 24(New). The pickup unit of claim 23, wherein the adjustable clamping members each include:

a resilient surface portion on the adjustable clamping members, so that mounting the pickup unit with the adjustable clamping members does not result in causing damage to the stringed instrument, the adjustable clamping members for orienting the pickup unit so that the rotatable knob is not directly beneath the strings; and

a screwable member for compressing the adjustable clamping members about the interior edges of the sound hole of the stringed instrument.

Claim 25(New). The pickup unit of claim 23, further comprising:

a second pickup sensor on the stringed instrument connected to the pickup housing; and

a second rotatable tuning knob for tuning the second pickup sensor being mounted to another side face of at least one of the left and right sides of the pickup housing opposite the side face where the first rotatable tuning knob is located, the second

rotatable knob being located adjacent to at least one of the front end side and the rear end side, the second rotatable knob having an axis of rotation perpendicular to the vertical axis passing through the top surface and the bottom surface, the second rotatable knob being located beneath and away from the strings on the instrument so that fingers of the user do not have to pass between the strings to reach the second rotatable knob, and so that a single finger of a user's hand can reach the second rotatable knob while the user's hand remains stationary over the strings that are across the sound hole of the stringed instrument.